

Deana Luke, National Renewable Energy Laboratory

Bio

Deana Luke has over 25 years of experience working as an EHS professional. While her areas of expertise include industrial hygiene and risk assessment, her experience is broad-based and extends across the EHS arena. She has extensive experience performing hazard assessments for complex laser systems in R&D and manufacturing settings. Ms. Luke is currently the Safety and Health Manager at the National Renewable Energy Laboratory in Golden, CO, and is also one of two Laser Safety Officers working at NREL. She obtained a B.S degree in Community Health from Northern Illinois University, and a M.S in Environmental Health from the University of Colorado.

Abstract

Process for Safe, Efficient Laser Service Subcontractor Work

Servicing and maintenance of lasers can present an increased level of risk to personnel over normal operations due to the unique nature of the work which can involve open beam alignment tasks and exposure to electrical hazards and other hazardous energy sources. This presentation details a process for safe, efficient laser service subcontractor work, which is also outlined in the DOE EFCOG Laser Safety Subgroup Best Practices #66. This process supports the use of an Integrated Safety Management System (ISMS), for Hazard Identification and Control of service subcontractor work, whereby pre-planning is employed in advance of the service visit to define the scope of work to be conducted and to ensure appropriate controls will be available and in place during the servicing work. A questionnaire is used as a tool to collect information from the service technician prior to arriving on-site to conduct work. This process adds value to the laser system supervisor from an efficiency standpoint as well since it presents a predictable, consistent approach to bringing service subcontractors on-site, which minimizes delays when technicians arrive to begin their work.